Work Order ID 106350 *106350* Page 1 August-29-13 1:30:18 PM 646.9711 Accept *N900040100* Item ID: Setup Start **Revision ID:** Item Name: Blade **Start Qty: 16.00 Start Date:** 8/29/13 **Cust Item ID:** Required Date: 8/29/13 Req'd Qty: 16.00 **Customer:** Reference: Run Process Plan: ______ Date: \2 - 08-30 Tooling: Date: **Approvals:** Stop SPC (Y/N): Date: Date: Reject Reject Sequence ID/ Set Up/ **Tool ID** Tool # Plan **Operation** Accept Insp. Code Qty Number Stamp **Work Center ID Description Run Hours** Qty **Revision Nbr Draw Nbr** В 646,9700 100 0.00 16 6 BAND SAW *100* 0.00 Bandsaw Memo Jeaspa Bandsaw Cut Blank at 4.625"

110

HAAS 1

110

HAAS CNC vertical machine #1

HAAS CNC VERTICAL MACHINING #1

Memo

1-Machine per folio FB135 DWG REV: REV: AA.

2- deburr and break all sharp edges except otherwise noted

0.00

0.00

13/09/23

17/09/24

											DQAC	X /₩/I _ Date	19/01/01
NCR:	res) No				WORK ORDER NON-C		NFORM	MANCE / UP[DATE	/	Date	:: 13/12/19
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Cause	. 1	Date	Step	Qty	(or Non-conformance	Ch	ief Eng	Descr	ription	Date	Verification	QC Inspector
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ļ		Cracks				Broken/Damaged	L	Inspect	ion Incomplete		Part Incorred	ct _	Weld
		Crushed/	Crimped			Burrs		Instruct	tions Incomplete/U	Jnclear	Part Lost/Mi	ssing	Wrong Stock Pulled
		Cuffs				Contamination		Mainte	enance		Part Moved		
		Heat Trea	at			Countersink		Mislabe	eled		Positioned V	_	
	П	Inspectio	n Strip in	Tube		Cut Too Short		Misread	d		Power Loss/	Surge /	Other

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

140

Outsource process - Heat Treat

0.00

140

Outsource1

Memo

0.00

Outsource process - Heat Treat

HEAT TREAT AS PER DWG, SEE NOTE #3

ISSUE P/O: 2/577

1/13-10-2

								DQA:	Date	:
NCR: Ye	es / No			WORK ORDER NON-C	ONFOR	MANCE / UPDA		QA Closed:	Date	÷
Work Order	·:			DISPOSITION			AGAINST DEP	ARTMENT	/PROCESS	
Part No	o			Rework Scrap Use-as-is Work Order Update	Ther	Machining moforming	Crosstube Small Fab Finishing Composite		Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other
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ŀ	Turning S			Finish	\vdash	f Sequence	•			

Outside Dimensions

Wave/Twist in Tube

-Work Ord August-29-13 1		06350		*106	3350*				Page 3
Item ID: Revision ID: Item Name:	646.9711 Blade			Accept	*N900	<u>040100</u>)* s	Setup Start Stop	*NS1* *NS2*
Start Date: Required Date: Reference:	8/29/13 : 8/29/13	Start Qty: 16.00 Req'd Qty: 16.00	*16* *16*		Cust Item I Customer:	ID:			
Approvals:		an:	Date:	Tooling: SPC (Y/N):		ate:	F	Run Start Stop	*NR1* *NR2*
Sequence ID/ Work Center I	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool # Plan Code	Accept Qty		Reject Insp. Number Stamp
*150 *150* Packaging Packaging		Receive & Inspect for Da	mage & Mat'l Certs	0.00				/43/ng	1/7 (19_
155 *155* QC Quality Control		QC5- Inspect part comple	eteness to step on W/O	0.00					DAS 05 13.10.28
160 *160*		Spray Painting per QSI00	05 4.2	0.00			10	 Ø	o Al
SprayPaint Spray Painting		Memo PRIME AS F	PER DWG, SEE NOTE #4	0.00			16	Ψ	13-12-7

PRIMER BATCH: 127401

NCR: Y	es	/ No				WORK ORDER NON-	COI	NFORM	MANCE / UPDATE				ar.
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Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Finish

Work Orde		6350		*10F	350*							Page 4
Item ID: Revision ID: Item Name:	646.9711 Blade			Accept	*N900	040	100)*	Setup	Start Stop	171	S1* S2*
Start Date: Required Date: Reference:	8/29/13 8/29/13	Start Qty: 16.00 Req'd Qty: 16.00	*16* *16*		Cust Item I Customer:	ID:						
Approvals:		ın:	Date:	Tooling: SPC (Y/N):		ate:			Run	Start Stop	171	R1* R2*
Sequence ID/ Work Center II 170 *170* QC Quality Control	D	Operation Description QC14- Inspect Spray Pain Memo	nt	Set Up/ Run Hours 0.00	Tool ID	Tool#	Plan Code	Accep Qty	t Rej Qty		Reject Number	Insp. Stamp
*180 *180* Packaging Packaging		Identify as per dwg & Sto	ock Location: <u>Compo</u> s(7)	(5 0.00 (5) 0.00				16				MM 13.12.10
190 *190* QC		QC21- Final Inspection -	Work Order Release	0.00					[2	3/13	dio	40

Quality Control

MB-12-10

												DQA:	Da	te:	
NCR: Y	'es	/ No				WORK ORDER NON-O	100	NFORM	ANCE / UP	DATE		•		-	·
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1111 1 - O 1						DISPOSITION				AGAINST I	DEI	PARTMENT	/PROCESS		
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Mislabeled

Out of Calibration

Out of Sequence

Outside Dimensions

Misread

Offset

Positioned Wrong

Power Loss/Surge

Other

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Heat Treat

Inspection Strip in Tube

Torque Waves in Extrusion

Countersink

Cut Too Short

Drill Holes

Drawing Finish

Picklist Print

"August-29-13 1:30:18 PM

Work Order ID:

106350

Parent Item:

646.9711

Parent Item Name:

Blade

Start Date: 8/29/13

Required Date: 8/29/13

Page 1

Start Qty: 16.00

Required Qty: 16.00

Comments:

IPP REV:A NEW ISSUE 12/09/24 JFS VERIFY BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
MSTEEL-A2- B0.500X1.250		Purchased	No			100	f	203.0150	0.386	6.501052	8		
AISI A2 TOOL STEEL BA	AR, 0.500 X 1.250								Contract of the Contract of th	- warming	5-1	/	
				Location		Loc Oty	<u>Lo</u>	c Code		/	VK [:	50	
				MAT009	2	03.0150001					13/0	9/22	?
				12325	50	0.0000001					, -	//	
				12535	50	0.5946							

78.6704

123.75

M126166

M126438

6.5.

, C 44

•											DQA:	Date:	
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Work Orde	·· —	:				Rework	1		Skid-tube Ci	rosstube		Water Jet	Engineering
Part N	lo.					Scrap	1		⊢	mall Fab	Pro	d. Eng. Coor.	Quality
	_					Use-as-is	1		~ 	Finishing	Rec/Stor	e/Packaging	Other
NCR N	۱o					Work Order Update	1		Large Fab Co	omposite 🔲		Supplier	
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Root						ption of work order update	1	Initial	Action		Sign &		
Cause		Date	Step	Qty	•	or Non-conformance	Ch	ief Eng	Description	on	Date	Verification	QC Inspector
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Material	Ш												
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	H	eat Trea	at		ļ	Countersink		Mislab	eled	1	Positioned V	Vrong	

Misread

Offset

Out of Calibration

Out of Sequence
Outside Dimensions

Other

Power Loss/Surge

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Inspection Strip in Tube

Torque Waves in Extrusion

Cut Too Short

Drill Holes

Drawing

Finish

DART AEROSPACE LTD	Work Order:	106350
Description: Blade	Part Number:	646.9711
Inspection Dwg: 646.9700 Rev: B		Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
0.340	+0.000/-0.005	.337			DRUS	60 WW
Ø0.177	+0.005/-0.001	177	~		,	1
3.200	+/-0.005	3.199	/			
0.600	+/-0.005	,600	-			
0.985	+/-0.005	.985	/			
2.400	+/-0.005	2.400	-			
1.200	+/-0.005	1-200	•			
0.250	+/-0.005	1250				
37.2°	0.5°	37.1°	<u></u>		DIZAT	encock
0.29 x 30°	+/-0.010 x 0.5°	30"	/		1-1201	4,000
			(OA			

Measured by:	Audited by:	Preliminary Approval:
Date: /3/09/73	Date: 13/10/01	Date:

Rev	Date	Change	Revised by	Approved
A	13.06.03	New Issue	KJ	
В	13.06.27	Dwg Rev updated	KJ	
С	13.07.18	Dwg Rev updated	KJ K	
D	13.08.23	Dimensions revised	KJ KJ	/.\X\
			J/	

•								
	ENGINEE	RING CHANG	E NOTICE N	IO. 04039			SHE	ET 1 OF 1
APICAL	DWG NO.	646.9700	REV: B	PREPARED BY	D. PETERS	DATE: 0	8/09/13	EFFECT ON DWG ☑ INC. ☐ UNINC.
INDUSTRIES, INC.	DWG TITL	E: CUTTER SUB				\rightarrow		
	APPROVED BY:	ENGR Jian	MFG	David Bork		47	EFF:	NEXT ORDER
TRANSACTION CODES (TC): A-ADD C-CREATE R-REVISE D-DELETE	REASON:	MARKED INSPE	CTION DIMEN	ISIONS	/		ecr: NONE	
								,
							1/2	(2 -
							70	13-08-30
								13-08-30
DOCUMENTS EFFECTED:	□ RFMS □	MDL INSTAL	L INSTRUC	☐ ICA ☐ BO	CHANGE CA [*] M □ MAJOR	TEGORY DE	R REVIEW RI	EQUIRED 🗵 NO

| SEWICHS | STATE | STATE | SEWICHS | SEWICHS

NOTES:

MATERIAL: ALUMINUM 7075-T651 PER AMS-QQ-A-250/12

FINISH: HARD ANODIZE IAW MIL-A-8625 TYPE III.
CLASS 2. COLOR BLACK:
PRETREAT PRC-DESOTO PR-148 ADHESION PROMOTER;
PRIME IAW MIL-P-23377 J TYPE I CLASS N; 1-2 MIL MAX

MATERIAL: AISI AZ TOOL STEEL CONDITION: ANNEALED POST PROCESS: HEAT TREAT TO 58-62 RC ROCKWELL HARDNESS

A FINISH: PRIME IAW MIL-P-23377 J TYPE I CLASS N; 1-2 MIL MAX

5. DEBURR AND BREAK ALL SHARP EDGES EXCEPT WHERE OTHERWISE NOTED

6. IDENTIFY IAW MPP-120

APPLY F/N 5 AS REQUIRED TO ALL FAYING SURFACES OF F/N 2 UPON ASSEMBLY

& CUTTING EDGE INTENDED TO BE SHARP, DO NOT BREAK SHARP EDGE

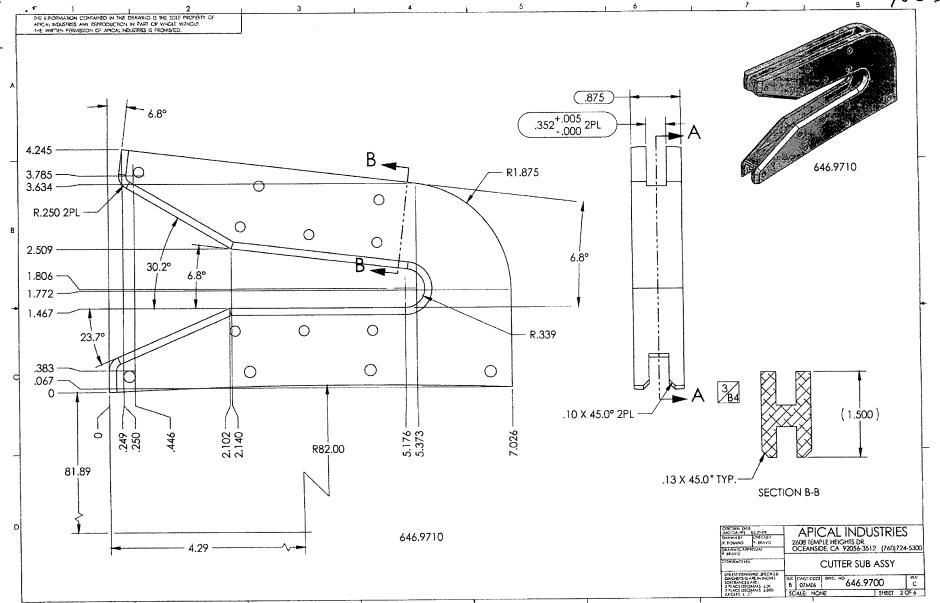
ALL DIMENSIONS NOT SPECIFIED ARE CONTROLLED BY 646.9710.

	1) or (7
646.9701 or 646.9702	-(2) 2PL -(3) 6PL (4) 12PL (6) 6PL

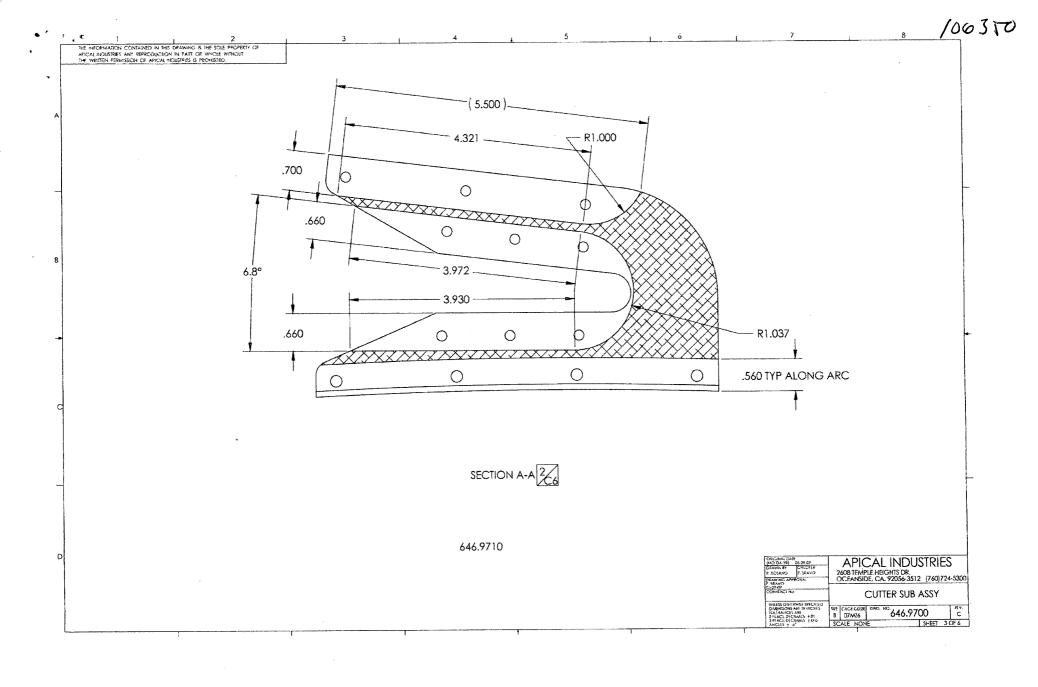
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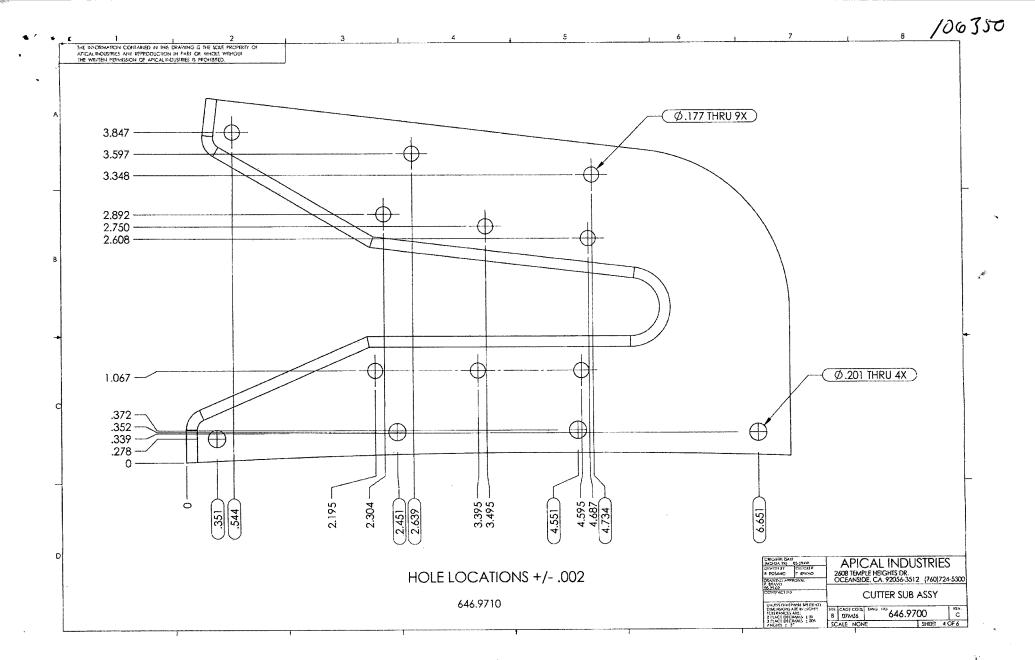
1		7	646.9712	BODY (U CHANNEL)		22
6	6	6	601.1541	LOCKNUT	MS21G42:G8	
A/	R A/R	5	601.2764	RTV, LOCTITE 598		
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2	2	2	646.9711	BLADE	/3\	Δ
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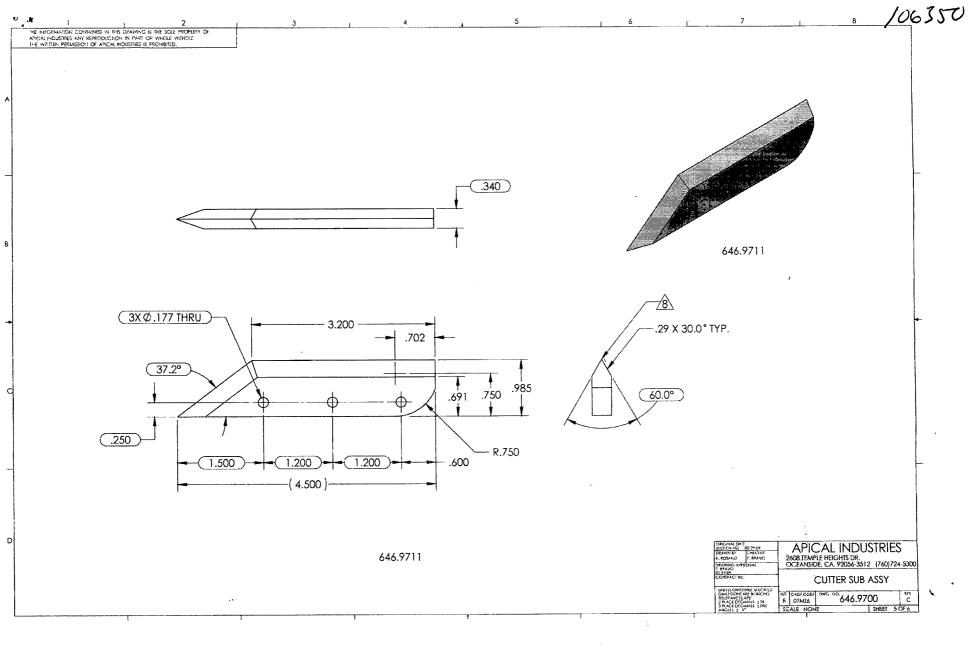
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646.9600	E. POSANO P. BRAYO	2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)72	A 530
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	COMPACING	CUTTER SUB ASSY	
	DIMERSO OTHERWISE SPECIFIED DIMERSONS ARE IN MICHAL TOLERANCES ARE: 2 PLACE DECIMALS 1.01	9/1 CAGECOON 1997: NO 646.9700	Rfv C
	ANGLES + 5*	SCALE NONE SHEET I	Of 6

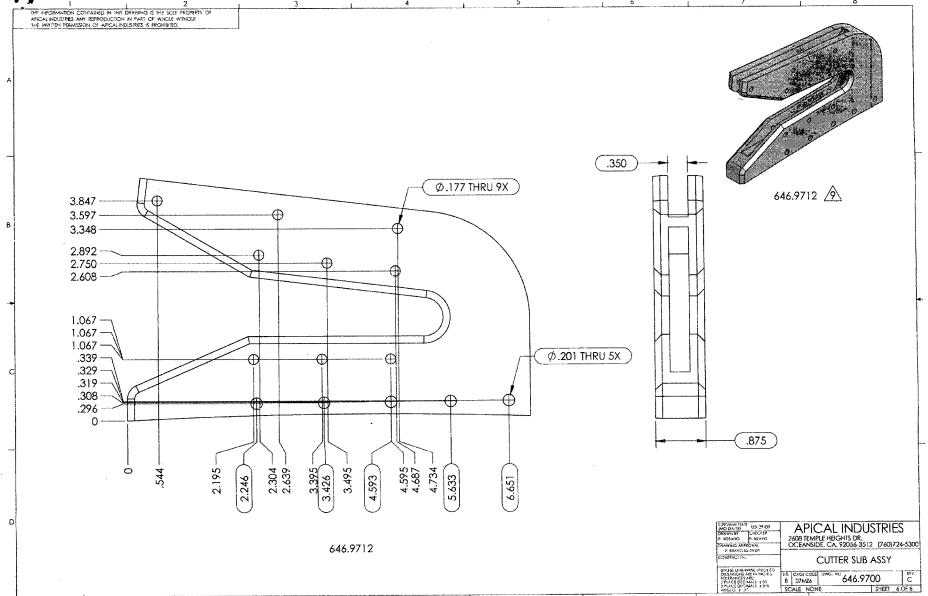


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Jean-Luc Menard

From:

Pablo Bravo

Sent:

September-30-13 8:43 PM

To:

Jean-Luc Menard

Subject:

RE: DEVIATION ACCEPTABLE??

JL,

I think once they are painted they will be around .013" so I don't think the extra .004" will be critical. Please go ahead and use the parts.

Pablo

From: Jean-Luc Menard

Sent: Monday, September 30, 2013 5:46 AM

To: Pablo Bravo

Subject: RE: DEVIATION ACCEPTABLE??

Hi Pablo,

Checked the ones we have in stock, mesurring .009" with a feeler gauge.

The ones we have here messuring .019" (blades unpainted).

Let me know,

JL

From: Pablo Bravo

Sent: September-27-13 5:32 PM

To: Jean-Luc Menard

Subject: Re: DEVIATION ACCEPTABLE??

JL,

I think we can use the parts. Please check the clearance between the blades once they have been assembled and compare it to other cutter assemblies in stock.

Pablo

On Sep 27, 2013, at 5:46 AM, "Jean-Luc Menard" < imenard@dartaero.com > wrote:

Hi Pablo,

Thanks for explaining, we are mesuring right on nominal (.250").

What is happening is that the part is on size(.985") until we mill the the blade angle, the tool(chamfer tool) overhangs the part and takes away at the point.

Let me know on what you decide,

JL

From: Pablo Bravo

Sent: September-26-13 3:48 PM

To: Jean-Luc Menard

Subject: RE: DEVIATION ACCEPTABLE??

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JL,

What is the distance between the holes and the bottom of the part? In the drawing it is .250 inches. The reason I ask is that if the blades are separated too much when they are installed (which could happen if the overall height is shorter than what's on the drawing) then not all of the cable strands will get cut as they go through the cutter. You would end up with some strands that get damaged, but are intact all the way through the blades. This ends up putting stress on the cutter body and causes the cable to fail in tension (where it is strongest) as opposed to being sheared. The design can handle one or two strands failing in tension, but if it gets past this then the cable won't get cut and the surrounding parts will fail. If we are on the high end of the tolerance on the distance between the hole and the bottom of the part (.255), then we might have too large of a gap.

Pablo

From: Jean-Luc Menard

Sent: Thursday, September 26, 2013 4:54 AM

To: Pablo Bravo

Subject: DEVIATION ACCEPTABLE??

Good Morning Pablo, Here is another one,646.9711,total height is coming in at .973". Is this acceptable? THX JL

<image002.png>

Jean-Luc Ménard

Production Engineering Supervisor

DART AEROSPACE

T 1 613 632-5200 > 227 F 1 613 632-5246 1 800 556- 4166 www.dartaerospace.com

<image003.png>

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ ST-EUSTACHE, QC J7R 5A8 Tel: 450-473-1884 / Fax: 450-491-5498

Reçu de livraison

Delivery Receipt

BON DE TRAVAIL	EXPÉDITEUR	BON D'EXPÉDITION
Order	Shipper ID	Shipper
189961	1	75438

EXPÉDITION COMPLÈTE / Shipped Complete

CLIENT / Customer

215

DART AEROSPACE 1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

Ph: 613-632-5200 Fax: 613-632-1053 LIVRÉ À /Shipped To

DART AEROSPACE

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

Ph: 613-632-5200 Fax: 613-632-1053

COMMANDE I		1	DE LIVRAISON DU CLIENT Customer Shipper No.	TYPE DE MATÉRIEL Material Type	DATE DE LA COMMANDE Order Date	TRANSPORTEUR Carrier
PO21	577			A2	2013/10/4	FEDEX
QUANTITÉ Quantity	No. PIÈCE Part No.	. 1	NOM DE LA PIÈCE / Part Name	DESCRIPTION DI Part Descripti	· ·	POIDS Weight
62	646.9711 (24) BLAI REFERE	DE	_104935			18,

(16) 646.9711 BLADE REFERENCE 106350

(14) 646.9711 BLADE REFERENCE 105988

(8) 646.3013 BLADE REFERENCE 106687

CONTENANT: 1 BOÎTE DE CARTON

QUANTITÉ EXPÉDIÉE /Quantity Shipped:	62
POIDS EXPÉDIÉ / Weight Shipped :	18,00

Signature:

Date:

EXPÉDIÉ LE / Shipped On: 2013/10/09

560, boul. Arthur-Sauvé, St-Eustache (Québec) J7R 5A8 Tél. 450 473-1884 Télécopieur/Fax administration 450 491-5498 Télécopieur/Fax production 450 491-6454

Rapport d'Inspection

Inspection Report

BON DE TRAVAIL order	CHARGEMENT load		
189961	4		

CLIENT / customer 215
DART AEROSPACE
1270 ABERDEEN
HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to: DART AEROSPACE 1270 ABERDEEN HAWKESBURY

ON K6A 1K7

COMMANDE DU CLIENT customer po	BONDE UVRAISON DU CLIENT	MATÉRIEL	CODE DE TRAITEMENT	NUMÉRO DE LOT
	Customer shipper no.	material	mat'l heat code	lot number
PO21577		A2		

SPÉCIFICATIONS DU PROCÉDÉ

processing specifications

VAC HARDEN

HARDEN AND TEMPER

EXIGENCE / requirement SPÉCIFICATIONS / specifiedTESTS EXÉCUTÉS / performed RÉSULTATS DE TESTS / results HARDNESS 58 - 62 HRC 13 58.0 - 60.0 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
62	18	646.9711
		(24) BLADE
•	n service.	REFERENCE 104935
		(16) 646.9711 BLADE ")
	હ.	REFERENCE 106350
		(14) 646.9711 BLADE
		REFERENCE 105988
:		(8) 646.3013 BLADE
;	. *	REFERENCE 106687
•		:
		CONTENANT: 1 BOÎTE DE CARTON

COMMENTAIRES / comments

CERTIFIÉ par / Certified by:



DATE: 2013-10-09